



Robert Greene Sterne
Edward J. Kessler
Jorge A. Goldstein
David K.S. Commwell
Robert W. Esmond
Tracy-Gene G. Durkin
Michele A. Cimbala
Michael B. Ray
Robert E. Sokohl
Eric K. Steffe
Michael Q. Lee
Steven R. Ludwig
John M. Covert
Linda E. Alcorn
Robert C. Millonig
Donald J. Featherstone
Lawrence B. Bugaisky
Michael V. Messinger

Judith U. Kim
Timothy J. Shea, Jr.
Patrick E. Garrett
Heidi L. Kraus
Edward W. Yee
Albert L. Ferro*
Donald R. Banowitz
Peter A. Jackman
Teresa U. Medler
Jeffrey S. Weaver
Kendrick P. Patterson
Vincent L. Capuano
Eldora Ellison Floyd
Thomas C. Fiala
Brian J. Del Buono
Virgil Lee Beaston
Kimberly N. Reddick
Theodore A. Wood

Elizabeth J. Haanes
Joseph S. Ostroff
Frank R. Cottingham
Christine M. Lhulier
Rae Lynn Prengaman
Jane Shershenovich*
George S. Bardmesser
Daniel A. Klein*
Jason D. Eisenberg
Michael D. Specht
Andrea J. Kamage
Tracy L. Muller*
LuAnne M. DeSantis
John J. Figueroa
Ann E. Summerfield
Tiera S. Coston
Aric W. Ledford*
Jessica L. Parezo

Timothy A. Doyle*
Gaby L. Longworth*
Nicole D. Dretar*
Ted J. Ebersole
Jyoti C. Iyer*
Registered Patent Agents*
Karen R. Markowicz
Nancy J. Leith
Helene C. Carlson
Matthew J. Dowd
Aaron L. Schwartz
Katrina Y. Pei Quach
Bryan L. Skelton
Robert A. Schwartzman
Teresa A. Colella
Jeffrey S. Lundgren
Victoria S. Rutherford

Eric D. Hayes
Michelle K. Holoubek
Robert H. DeSelms
Simon J. Elliott
Julie A. Heider
Mita Mukherjee
Scott M. Woodhouse

Of Counsel
Kenneth C. Bass III
Evan R. Smith
Marvin C. Guthrie

*Admitted only in Maryland
*Admitted only in Virginia
*Practice Limited to
Federal Agencies

July 2, 2004

WRITER'S DIRECT NUMBER:
(202) 772-8679

INTERNET ADDRESS:
TSHEA@SKGF.COM

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Mail Stop Amendment

Re: U.S. Utility Patent Application
Application No. 10/782,002; Filed: February 20, 2004
For: **Novel Cellulases, the Genes Encoding Them and Uses Thereof**
Inventors: Miettinen-Oinonen *et al.*
Our Ref: 1716.051000A/TJS/TJE

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (18 pages) citing 111 documents;
3. Copies of cited documents AR1-AT1, AR2-AT2, AR3-AT3, AR4-AT4, AR5-AT5, AR6-AT6, AR7-AT7, AR8-AT8, AR9-AT9, AR10-AT10, AR11-AT11, AR12-AT12, AR13-AT13, AR14-AT14, AR15-AT15, AR16-AT16, AR17-AT17, and AR18-AT18; and
4. One (1) return postcard.

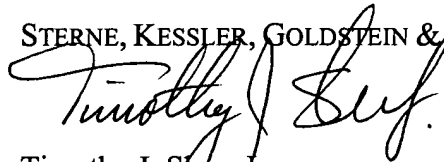
It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

Commissioner for Patents
July 2, 2004
Page 2

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Timothy J. Shea, Jr.
Attorney for Applicants
Registration No. 41,306

TJS/TJE:krd
Enclosures

276967_1.DOC



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Miettinen-Oinonen *et al.*

Appl. No.: 10/782,002

Filed: February 20, 2004

For: **Novel Cellulases, the Genes
Encoding Them and Uses Thereof**

Confirmation No.: 5790

Art Unit: 1646

Examiner: *To Be Assigned*

Atty. Docket: 1716.051000A/TJS/TJE

Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in accordance with 37 C.F.R. § 1.97(b). No statement or fee is required.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following discussion of the relevance of the non-English language document AL1. Document AL1 is in the German language. Document AL1 was cited in a search report by a foreign patent office (WIPO) in a counterpart foreign application (PCT). An English language version of the search report is being submitted as Document AS15. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign patent office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

The Examiner's attention is directed to the following co-pending patent application which is directed to related technical subject matter: U.S. Application No. 10/825,378, filed April 16, 2004, inventors Miettinen-Oinonen *et al.*, submitted herewith as Document AT18. The identification of this U.S. patent application is not to be construed as a waiver of secrecy as to this application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

It is expected that the Examiner will review the prosecution and cited art in the parent U.S. Application No. 08/841,636, filed April 30, 1997, now U.S. Patent No. 6,723,549, submitted herewith as Document AJ2, in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

No copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted in accordance with 1276 OG 55 because this application was filed after June 30, 2003.

Copies of cited foreign patent documents were cited by or submitted to the Office in an Information Disclosure Statement that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 08/841,636, filed April 30, 1997, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of documents AL1-AP1, AL2-AP2, AL3-AP3, AL4-AP4, AL5-AP5, AL6-AP6, AL7-AP7, and AL8-AM8 are not attached in accordance with 37 C.F.R. § 1.98(d).

Copies of cited documents AR1-AT1, AR2-AT2, AR3-AT3, AR4-AT4, AR5-AT5, AR6-AT6, AR7-AT7, AR8-AT8, AR9-AT9, AR10-AT10, AR11-AT11, AR12-AT12, AR13-AT13, AR14-AT14, AR15-AT15, AR16-AT16, AR17-AT17, and AR18-AT18 are attached.

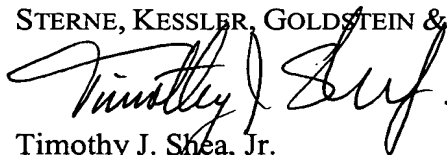
It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

Miettinen-Oinonen *et al.*
Appl. No. 10/782,002

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

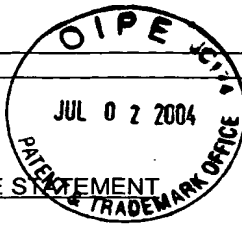


Timothy J. Shea, Jr.
Attorney for Applicants
Registration No. 41,306

Date: July 2, 2004

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
1716.051000A/TJS/TJEAPPLICATION NO.
10/782,002FIRST NAMED INVENTOR
Miettinen-Oinonen *et al.*FILING DATE
February 20, 2004ART UNIT
1646

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|--------------------|------------|-----------------------|-------|-----------|-------------|
| | AA1 | 3,438,864 | 04/15/1969 | Tendler | | | 01/19/1966 |
| | AB1 | 3,664,961 | 05/23/1972 | Norris | | | 03/31/1970 |
| | AC1 | 4,106,989 | 08/15/1978 | Komura <i>et al.</i> | | | 04/26/1977 |
| | AD1 | 4,832,864 | 05/23/1989 | Olson | | | 09/15/1987 |
| | AE1 | 4,894,338 | 01/16/1990 | Knowles <i>et al.</i> | | | 01/30/1986 |
| | AF1 | 4,912,056 | 03/27/1990 | Olson | | | 12/08/1988 |
| | AG1 | 5,006,126 | 04/09/1991 | Olson <i>et al.</i> | | | 09/15/1988 |
| | AH1 | 5,120,463 | 06/09/1992 | Bjork <i>et al.</i> | | | 04/15/1991 |
| | AI1 | 5,122,159 | 06/16/1992 | Olson <i>et al.</i> | | | 04/01/1991 |
| | AJ1 | 5,213,581 | 05/25/1993 | Olson <i>et al.</i> | | | 06/15/1992 |
| | AK1 | 5,232,851 | 08/03/1993 | Cox <i>et al.</i> | | | 10/16/1990 |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|--------------------|------------|---------------|-------|-----------|-------------|
| | AL1 | DE 1 767 737 | 09/23/1971 | Germany | | | Yes X No |
| | AM1 | GB 2 075 028 | 11/11/1981 | Great Britain | | | Yes No |
| | AN1 | EP 0 220 016 | 04/29/1987 | Europe | | | Yes No |
| | AO1 | EP 0 238 216 | 09/23/1987 | Europe | | | Yes No |
| | AP1 | EP 0 307 564 | 03/22/1989 | Europe | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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|--|----|---|---|
| | AR | 1 | Aho, S., <i>et al.</i> , "Monoclonal antibodies against core and cellulose-binding domains of <i>Trichoderma reesei</i> cellobiohydrolases I and II and endoglucanase I," <i>Eur. J. Biochem.</i> 200:643-649, Springer International (1991) |
| | AS | 1 | Bailey, M.J. and Nevalainen, K.M.H., "Induction, isolation and testing of stable <i>Trichoderma reesei</i> mutants with improved production of solubilizing cellulase," <i>Enzyme Microb. Technol.</i> 3:153-157, Elsevier (1981) |
| | AT | 1 | Bhat, K.M., <i>et al.</i> , "The Endo-(1→4)-β-D-glucanase System of <i>Penicillium pinophilum</i> Cellulase: Isolation, Purification, and Characterization of Five Major Endoglucanase Components," <i>Carbohydrate Res.</i> 190:279-297, Elsevier Science Publishers B.V. (1989) |

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| EXAMINER | DATE CONSIDERED |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | ATTY. DOCKET NO. 1716.051000A/TJS/TJE | APPLICATION NO. 10/782,002 |
| | FIRST NAMED INVENTOR Miettinen-Oinonen <i>et al.</i> | |
| | FILING DATE February 20, 2004 | ART UNIT 1646 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|------------|---------------------------------|-------|-----------|-------------|
| | AA2 | 5,246,853 | 09/21/1993 | Clarkson <i>et al.</i> | | | 03/29/1991 |
| | AB2 | 5,290,474 | 03/01/1994 | Clarkson <i>et al.</i> | | | 05/30/1991 |
| | AC2 | 5,298,405 | 03/29/1994 | Nevalainen <i>et al.</i> | | | 05/16/1990 |
| | AD2 | 5,443,750 | 08/22/1995 | Convents <i>et al.</i> | | | 07/15/1993 |
| | AE2 | 5,520,838 | 05/28/1996 | Baeck <i>et al.</i> | | | 11/19/1993 |
| | AF2 | 5,525,507 | 06/11/1996 | Clarkson <i>et al.</i> | | | 03/18/1994 |
| | AG2 | 5,650,322 | 07/22/1997 | Clarkson <i>et al.</i> | | | 09/30/1992 |
| | AH2 | 6,001,639 | 12/14/1999 | Schulein <i>et al.</i> | | | 05/21/1996 |
| | AI2 | 6,184,019 | 02/06/2001 | Miettinen-Oinonen <i>et al.</i> | | | 06/10/1999 |
| | AJ2 | 6,723,549 | 04/20/2004 | Miettinen-Oinonen <i>et al.</i> | | | 04/30/1997 |
| | AK | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-----------------|------------|---------|-------|-----------|-------------|
| | AL2 | WO 89/09259 | 10/05/1989 | WIPO | | | Yes No |
| | AM2 | EP 0 383 828 | 08/29/1990 | Europe | | | Yes No |
| | AN2 | EP 0 406 314 | 01/09/1991 | Europe | | | Yes No |
| | AO2 | WO 91/14822 | 10/03/1991 | WIPO | | | Yes No |
| | AP2 | WO 91/17243 | 11/14/1991 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>2</u> | Bhikhabhai, R., <i>et al.</i> , "Isolation of Cellulolytic Enzymes from <i>Trichoderma reesei</i> QM 9414," <i>J. Appl. Biochem.</i> 6:336-345, Academic Press, Inc. (1984) |
| | AS | <u>2</u> | Bowie, J.U., <i>et al.</i> , "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990) |
| | AT | <u>2</u> | Bühler, R., "Double-Antibody Sandwich Enzyme-Linked Immunosorbent Assay for Quantitation of Endoglucanase I of <i>Trichoderma reesei</i> ," <i>Appl. Environ. Microbiol.</i> 57:3317-3321, American Society for Microbiology (1991) |

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|---------------------|-----|--------------------|------------|---------|-------|-----------|-------------|
| | AL3 | WO 91/17244 | 11/14/1991 | WIPO | | | Yes No |
| | AM3 | WO 92/06165 | 04/16/1992 | WIPO | | | Yes No |
| | AN3 | WO 92/06210 | 04/16/1992 | WIPO | | | Yes No |
| | AO3 | WO 92/06209 | 04/16/1992 | WIPO | | | Yes No |
| | AP3 | WO 92/06221 | 04/16/1992 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
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| | AR | <u>3</u> | Commission on Biotechnology, <i>Measurement of Cellulase Activities</i> , Commission on Biotechnology, International Union of Pure and Applied Chemistry, Indian Institute of Technology, Delhi, 17 pages (1984) |
| | AS | <u>3</u> | Davies, G.J., <i>et al.</i> , "Structure and function of endoglucanase V," <i>Nature</i> 365:362-364, Nature Publishing Company (1993) |
| | AT | <u>3</u> | El-Gindy, A.A., "Production of Cellulase(s) by <i>Myriococcum albomyces</i> ," <i>Zentralbl. Mikrobiol.</i> 146:193-196, Gustav Fischer Verlag Jena (1991) |

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FOREIGN PATENT DOCUMENTS

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| | AL4 | WO 92/17574 | 10/15/1992 | WIPO | | | Yes No |
| | AM4 | WO 92/17572 | 10/15/1992 | WIPO | | | Yes No |
| | AN4 | EP 0 510 091 | 10/28/1992 | Europe | | | Yes No |
| | AO4 | WO 92/18599 | 10/29/1992 | WIPO | | | Yes No |
| | AP4 | EP 0 521 999 | 01/13/1993 | Europe | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>4</u> | Harkki, A., <i>et al.</i> , "Genetic engineering of <i>Trichoderma</i> to produce strains with novel cellulase profiles," <i>Enzyme Microb. Technol.</i> 13:227-233, Elsevier (1991) |
| | AS | <u>4</u> | Henrissat, B. and Bairoch, A., "New families in the classification of glycosyl hydrolases based on amino acid sequence similarities," <i>Biochem. J.</i> 293:781-788, The Biochemical Society (1993) |
| | AT | <u>4</u> | Karhunen, T., <i>et al.</i> , "High frequency one-step gene replacement in <i>Trichoderma reesei</i> . I. Endoglucanase I overproduction," <i>Mol. Gen. Genet.</i> 241:515-522, Springer Verlag (1993) |

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|---------------------|-----|--------------------|------------|---------|-------|-----------|-------------|
| | AL5 | EP 0 531 372 | 03/17/1993 | Europe | | | Yes No |
| | AM5 | WO 93/11249 | 06/10/1993 | WIPO | | | Yes No |
| | AN5 | WO 93/22428 | 11/11/1993 | WIPO | | | Yes No |
| | AO5 | WO 93/24621 | 12/09/1993 | WIPO | | | Yes No |
| | AP5 | WO 93/24622 | 12/09/1993 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>5</u> | Klahorst, S., <i>et al.</i> , "Optimizing the Use of Cellulases for Denim Finishing," <i>AATCC Int. Conf. & Exhibit</i> , Atlanta, GA, pp. 243 (1992) |
| | AS | <u>5</u> | Klahorst, S., <i>et al.</i> , "Optimizing the Use of Cellulase Enzymes," <i>Textile Chemist and Colorist</i> 26:13-18, Enzyme Technical Association (February 1994) |
| | AT | <u>5</u> | Kochavi, D., <i>et al.</i> , "Optimizing Processing Conditions in Enzymatic Stonewashing," <i>Am. Dyestuff Reporter</i> 79:24, 26, 28, SAF Publications Inc. (1990) |

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|---------------------|-----|--------------------|------------|---------|-------|-----------|-------------|
| | AL6 | EP 0 576 526 | 01/05/1994 | Europe | | | Yes No |
| | AM6 | WO 94/07983 | 04/14/1994 | WIPO | | | Yes No |
| | AN6 | WO 94/07998 | 04/14/1994 | WIPO | | | Yes No |
| | AO6 | WO 94/14953 | 07/07/1994 | WIPO | | | Yes No |
| | AP6 | WO 94/23113 | 10/13/1994 | WIPO | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AR | <u>6</u> | Lange, N.K., "Application of cellulases in the textile industry," in: <i>Trichoderma ressei Cellulases and Other Hydrolases</i> , Suominen, P. and Reinikainen, T., eds., Foundation for Biotechnical and Industrial Fermentation Research, Espoo, Finland, pp. 263-272 (1993) |
| | AS | <u>6</u> | Lantto, R., <i>et al.</i> , "Backstaining in Denim Wash With Different Cellulases," <i>Am. Dyestuff Reporter</i> 85:64-65, 72, SAF Publications Inc. (August 1996) |
| | AT | <u>6</u> | Latif, F., <i>et al.</i> , "Saccharification of <i>Leptochloa fusca</i> (Kallar Grass Straw) Using Thermostable Cellulases," <i>Biores. Technol.</i> 50:107-111, Elsevier Science Ltd. (July 1994) |

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FORM PTO-1449

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10/782,002FIRST NAMED INVENTOR
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| | AL7 | WO 95/02675 | 01/26/1995 | WIPO | | | Yes No |
| | AM7 | WO 95/16782 | 06/22/1995 | WIPO | | | Yes No |
| | AN7 | WO 95/24471 | 09/14/1995 | WIPO | | | Yes No |
| | AO7 | WO 95/25840 | 09/28/1995 | WIPO | | | Yes No |
| | AP7 | WO 96/17994 | 06/13/1996 | WIPO | | | Yes No |

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| | AR | <u>1</u> | Mach, R.L., <i>et al.</i> , "Transformation of <i>Trichoderma reesei</i> based on hygromycin B resistance using homologous expression signals," <i>Curr. Genet.</i> 25:567-570, Springer International (June 1994) |
| | AS | <u>1</u> | Mandels, M. and Reese, E.T., "Induction of Cellulase in <i>Trichoderma Viride</i> as Influenced by Carbon Sources and Metals," <i>J. Bacteriol.</i> 73:269-278, The Williams & Wilkins Company (1957) |
| | AT | <u>1</u> | Mattern, I.E., <i>et al.</i> , "Transformation of <i>Aspergillus Oryzae</i> ," in: <i>Abstracts of the 19th Lanteren Lectures on Molecular Genetics of Yeasts and Filamentous Fungi and its Impact on Biotechnology</i> , p. 34 (1987) |

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| | AL8 | WO 96/29397 | 09/26/1996 | WIPO | | | Yes No |
| | AM8 | WO 96/34945 | 11/07/1996 | WIPO | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

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| | AR | <u>8</u> | Miettinen-Oinonen, A., "Effects of Cellulases on Cotton Fiber and Fabric," <i>Proc. Of the 77th World Conf. of the Textile Inst.</i> 1:197-207, The Textile Institute (May 1996) |
| | AS | <u>8</u> | Moloney, A.P., "Cellulose Hydrolysis by the Cellulases Produced by <i>Talaromyces emersonii</i> when Grown on Different Inducing Substrates," <i>Biotechnol. & Bioeng.</i> 25:1169-1173, John Wiley & Sons, Inc. (1983) |
| | AT | <u>8</u> | Nevalainen, H., "Genetic improvement of enzyme production in industrially important fungal strains," Presented at <i>The University of Helsinki</i> , VTT, Technical Research Centre of Finland, Publications 26, Espoo, Finland, pp. 3-58 (1985) |

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| | AR | <u>9</u> | Nilsson, T.E., "Enzymes for the Textile Industry - Traditional and New Applications," Presented at <i>Aachen Textile Conference</i> , November 1994, published in <i>DWI Reports</i> 114:85-88, Das Institut (February 1995) |
| | AS | <u>9</u> | Offord, D.A., <i>et al.</i> , "Preparative Purification of <i>Trichoderma reesei</i> Native and "Core" Cellobiohydrolase I by Electrophoresis and Chromatofocusing," <i>Appl. Biochem. & Biotechnol.</i> 28/29:377-386, The Humana Press (1991) |
| | AT | <u>9</u> | Penttilä, M., <i>et al.</i> , "Homology between cellulase genes of <i>Trichoderma reesei</i> : complete nucleotide sequence of the endoglucanase I gene," <i>Gene</i> 45:253-263, Elsevier Science Publishers B.V. (1986) |

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| | AR | <u>10</u> | Penttilä, M., <i>et al.</i> , "A versatile transformation system for the cellulolytic filamentous fungus <i>Trichoderma reesei</i> ," <i>Gene</i> 61:155-164, Elsevier Science Publishers B.V. (1987) |
| | AS | <u>10</u> | Saloheimo, M., <i>et al.</i> , "EGIII, a new endoglucanase from <i>Trichoderma reesei</i> : the characterization of both gene and enzyme," <i>Gene</i> 63:11-21, Elsevier Science Publishers B.V. (1988) |
| | AT | <u>10</u> | Saloheimo, A., <i>et al.</i> , "A novel, small endoglucanase gene, <i>egl5</i> , from <i>Trichoderma reesei</i> isolated by expression in yeast," <i>Molec. Microbiol.</i> 13:219-228, Blackwell Scientific Publications (1994) |

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| | AR | <u>11</u> | Schindler, M., <i>et al.</i> , "Characterization of the pyruvate kinase-encoding gene (pkil) of <i>Trichoderma reesei</i> ," <i>Gene</i> 130:271-275, Elsevier Science Publishers B.V. (1993) |
| | AS | <u>11</u> | Schüle, M., "Cellulases of <i>Trichoderma reesei</i> ," <i>Meth. Enzymol.</i> 160:234-242, Academic Press, Inc. (1988) |
| | AT | <u>11</u> | Schüle, M., <i>et al.</i> , "Humicola insolens Alkaline Cellulases," in: <i>Proceedings of the Second TRICEL symposium on Trichoderma reesei Cellulases and Other Hydrolases</i> , Suominen, P. and Reinikainen, T., eds., Foundation for Biotechnical and Industrial Fermentation Research, Espoo, Finland, pp. 109-116 (1993) |

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| | AR | <u>12</u> | Shoemaker, S., <i>et al.</i> , "Molecular Cloning of Exo-Cellobiohydrolase I Derived from <i>Trichoderma reesei</i> Strain L27," <i>Bio/Technol.</i> 1:691-696, Nature Publishing Company (1983) |
| | AS | <u>12</u> | Suominen, P.L., <i>et al.</i> , "High frequency one-step gene replacement in <i>Trichoderma reesei</i> . II. Effects of deletions of individual cellulase genes," <i>Mol. Gen. Genet.</i> 241:523-530, Springer-Verlag (1993) |
| | AT | <u>12</u> | Teeri, T., <i>et al.</i> , "The Molecular Cloning of the Major Cellulase Gene from <i>Trichoderma reesei</i> ," <i>Bio/Technol.</i> 1:696-699, Nature Publishing Company (1983) |

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| | AR | <u>13</u> | Teeri, T. T., "The cellulolytic enzyme system of <i>Trichoderma reesei</i> : Molecular cloning, characterization and expression of the cellobiohydrolase genes," <i>Presented at the University of Helsinki, VTT, Technical Research Centre of Finland Publications</i> 38, Espoo, Finland, pp. 1-52 (1987) |
| | AS | <u>13</u> | Teeri, T., <i>et al.</i> , "Homologous domains in <i>Trichoderma reesei</i> cellulolytic enzymes: gene sequence and expression of cellobiohydrolase II," <i>Gene</i> 51:43-52, Elsevier Science Publishers B.V. (1987) |
| | AT | <u>13</u> | Tomme, P., <i>et al.</i> , "Studies of the cellulolytic system of <i>Trichoderma reesei</i> QM 9414: Analysis of domain function in two cellobiohydrolases by limited proteolysis," <i>Eur. J. Biochem.</i> 170:575-581, Blackwell Science Ltd. (1988) |

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| | AR | <u>14</u> | Tyndall, R.M., "Application of Cellulase Enzymes to Cotton Fabrics and Garments," <i>AATCC Book of Papers: 1991 International Conference & Exhibition</i> , American Association of Textile Chemists and Colorists, Research Triangle Park, NC, pp. 269-273 (1991) |
| | AS | <u>14</u> | Tyndall, R. M., "Improving the Softness and Surface Appearance of Cotton Fabrics and Garments by Treatment with Cellulase Enzymes," <i>Textile Chemist & Colorist</i> 24:23-26, Enzyme Technical Association (1992) |
| | AT | <u>14</u> | van Tilbeurgh, H., <i>et al.</i> , "Fluorogenic and Chromogenic Glycosides as Substrates and Ligands of Carbohydrates," <i>Methods Enzymol.</i> 160:45-59, Academic Press (1988) |

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| | AR | <u>15</u> | Videbaek, T., <i>et al.</i> , "The jeans effect comes into being," <i>ITB Dyeing/Printing/Finishing</i> 1:25-29, Bandung Institute of Technology (1994) |
| | AS | <u>15</u> | Wood, T.M., <i>et al.</i> , "Aerobic and Anaerobic Fungal Cellulases, with Special Reference to Their Mode of Attack on Crystalline Cellulose," in: <i>Biochemistry and Genetics of Cellulose Degradation</i> , Aubert, J.-P., <i>et al.</i> , eds., Academic Press, London, UK, pp. 31-52 (1988) |
| | AT | <u>15</u> | "Celluzyme™," Product Sheet, Detergent Enzymes Division, Novo Nordisk A/S, 2 pages (date unknown) |

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| | AR | <u>16</u> | "Denimax™ T," Product Sheet, Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown) |
| | AS | <u>16</u> | "Denimax™ L," Product Sheet, Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown) |
| | AT | <u>16</u> | "Denimax™ PB," Product Sheet, Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown) |

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1716.051000A/TJS/TJEAPPLICATION NO.
10/782,002FIRST NAMED INVENTOR
Miettinen-Oinonen *et al.*FILING DATE
February 20, 2004ART UNIT
1646**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|----|--------------------|------|------|-------|-----------|-------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
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FOREIGN PATENT DOCUMENTS

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|---------------------|----|--------------------|------|---------|-------|-----------|-------------|
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |
| | AN | | | | | | Yes No |
| | AO | | | | | | Yes No |
| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|-----------|---|
| | AR | <u>17</u> | "Denimax® BT," Product Sheet, NOVO Enzyme Process Division, Novo Nordisk A/S, 1 page (date unknown) |
| | AS | <u>17</u> | Copy of International Search Report for International Patent Appl. No. PCT/FI96/00550, mailed February 14, 1997, European Patent Office, Netherlands |
| | AT | <u>17</u> | Biotechnology Abstracts, Accession No. 91-08942, abstract for El-Gindy, A.A., "Production of cellulase(s) by <i>Myriococcum albomyces</i> ," <i>Zbl. Mikrobiol.</i> 146:193-196, Gustav Fischer Verlag Jena (1991) (Document AT3) |

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| | AP | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|--|----|-----------|---|
| | AR | <u>18</u> | Biotechnology Abs., Accession No. 95-04270, Abstract for Latif, F., <i>et al.</i> , "Saccharification of <i>Leptochloa fusca</i> (Kallar Grass Straw) Using Thermostable Cellulases," <i>Biores. Technol.</i> 50:107-111, Elsevier Science Ltd. (1994) (Document AT6) |
| | AS | <u>18</u> | STNEasy Database, Accession No. DE1767737, no English abstract available for DE 1 767 737 (Document AL1) |
| | AT | <u>18</u> | Copy of co-pending U.S. Application No. 10/825,378, inventors Miettinen-Oinonen <i>et al.</i> , filed April 16, 2004 (Not Published) |

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